

# Abstracts

## A Unified Design of Dielectric Resonator Oscillators for Telecommunication Systems

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*S.-W. Chen, L.-C. Chang and J.Y. Chin. "A Unified Design of Dielectric Resonator Oscillators for Telecommunication Systems." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 593-596.*

A unified design approach for improving the performance of both regular DRO & Voltage Tuned DRO (VTDRO) is presented with a step-by-step procedure. The novel designs of 23GHz DRO and 18GHz VTDRO are reported together with their experimental results showing superior performance over the previously published results; for example, the frequency- temperature stability at 23GHz has been improved by a factor of four, while the frequency tuning sensitivity at 18GHz by a factor of five.

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